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NOTICE OF ALLOWANCE AND FEE(S) DUE

27045 ERICSSON INC. 09/20/2010

EXAMINER NG, FAN ART UNIT PAPER NUMBER 2471

DATE MAILED: 09/20/2010

6300 LEGACY DRIVE M/S EVR 1-C-11 PLANO, TX 75024

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,353	02/10/2006	Terje Moldestad	P17015-US1	2578

TITLE OF INVENTION: TUNNELLING TDM TRAFFIC OVER MPLS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/20/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:**

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed otl	ng the Patent, advance of herwise in Block 1, by (orders and notification of a) specifying a new corr	maintenance fees very spondence address	will be m s; and/or (ailed to the current of (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 27045 7590 09/20/2010 ERICSSON INC. 6300 LEGACY DRIVE M/S EVR 1-C-11				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.			
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE	r.	FIRST NAMED INVENTO	R	ATTORI	NEY DOCKET NO.	CONFIRMATION NO.
10/540,353 TITLE OF INVENTION	02/10/2006 I: TUNNELLING TDM	TRAFFIC OVER MPLS	Terje Moldestad		Р	17015-US1	2578
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	JE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	12/20/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	7			
NG,	FAN	2471	370-466000	_			
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Uni	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	" Indication form ned. Use of a Customer A TO BE PRINTED ON tified below, no assignee	(1) the names of up or agents OR, alterna (2) the name of a sin registered attorney or 2 registered patent at listed, no name will be THE PATENT (print or to data will appear on the T a substitute for filing a (B) RESIDENCE: (CIT	gle firm (having as a agent) and the nan corneys or agents. If e printed. ype) patent. If an assign assignment.	a member nes of up no name	ta 2to is 3	cument has been filed for
Please check the appropr	riate assignee category or	r categories (will not be p	rinted on the patent):	Individual 🗖 C	Corporation	n or other private gro	up entity 🗖 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 				
5. Change in Entity Sta	i tus (from status indicate as SMALL ENTITY stati		b. Applicant is no lo	nger claiming SMA	II ENTI	TV status See 37 CF	R 1.27(g)(2)
NOTE: The Issue Fee an	d Publication Fee (if req		ed from anyone other than				e assignee or other party in
Authorized Signature				Date			
Typed or printed name			Registration No.				
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DO	CFR 1.311. The informati 5 U.S.C. 122 and 37 CFR e USPTO. Time will vary orden, should be sent to the D NOT SEND FEES OR	on is required to obtain or 1.14. This collection is e y depending upon the induction office the chief Information Officompleted FORMS	retain a benefit by stimated to take 12 ividual case. Any co cer, U.S. Patent and FO THIS ADDRES	the public minutes t omments I Tradema S. SEND	which is to file (and o complete, including on the amount of tim rk Office, U.S. Depa TO: Commissioner fo	by the USPTO to process) g gathering, preparing, and le you require to complete ttment of Commerce, P.O. or Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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10/540,353	02/10/2006	Terje Moldestad	P17015-US1	2578
27045 75	90 09/20/2010		EXAMINER	
ERICSSON INC.			NG, FAN	
6300 LEGACY DE	RIVE		ART UNIT	PAPER NUMBER
M/S EVR 1-C-11 PLANO, TX 75024	1		2471 DATE MAILED: 09/20/201	0

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 549 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 549 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
	10/540,353	MOLDESTAD ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Fan Ng	2471			
	Falling	2471			
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr IGHTS . This application is	in this application. If not included nunication will be mailed in due course. THI	S ative		
1. This communication is responsive to <u>08/09/2010</u> .					
2. The allowed claim(s) is/are 2 and 4-8.					
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do 	e been received. e been received in Applicat	ion No	a		
International Bureau (PCT Rule 17.2(a)).	damente nave been receiv	ou in the haterial stage application from the			
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew (PTO-948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT					
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of	nformal Patent Application			
2. \square Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),			
3. Information Disclosure Statements (PTO/SB/08),	Paper No 7. ⊠ Examiner	o./Mail Date s Amendment/Comment			
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner	s Statement of Reasons for Allowance			
of Biological Material	9. 🗌 Other	<u>_</u> :			
/F. N./					
Examiner, Art Unit 2471					

Allowable Subject Matter

Claims 2, 4-8 are allowed.

1. The following is an examiner's statement of reasons for allowance: The claims are allowed for at least the reasons as set forth on page 4-5 of applicant's response filed 08/09/2010, and prior art of record does not disclose, in single or in combination of:

Claim 2, ... stacking the data frame with (i) at least one inner MPLS label uniquely addressing a PCM system within the second circuit switched node and (ii) at least one outer MPLS label identifying a fixed path of consecutive packet switched nodes within the packet switched network, said outer label includes addresses of all the packet switched nodes included in the fixed path in addition to an address of the second circuit switched node... in combination with other limitations recited in claim 2.

The closet prior art <u>Kuehnel (2004/0202148)</u> discloses a system for streaming data transport over a multi-protocol label switching (MPLS) network, comprising an ingress router that comprises a first multiplexer that receives and processes at least one input data stream and outputs single stream data comprising a plurality of data packets, each of said plurality of data packets having a data portion, an IP traffic generator that generates IP routing packets at a fixed or dynamic predetermined interval in response to a trigger signal, a second multiplexer, coupled to said first multiplexer and said IP traffic generator, that inserts said IP routing packets into said single stream data, and a

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first MPLS converter, coupled between said second multiplexer and said MPLS network, that attaches a label to each of said plurality of data packets to generate a combined data stream comprising a plurality of data packets of a first type interspersed between a plurality of data packets of a second type, each of said data packets carrying address information generated in accordance with each of said IP routing packets, wherein one-to-one mapping is performed between said label and said address information of the said IP-routing packets. Kuehnel failed to disclose the particular relationship between switch and time order configured above in italic.

The Examiner asserts that Langille teaches "inner MPLS," referring to paragraphs 0050-0052, thereof. (Office Action; page 3, line 3) Although the referenced portions and figures of Langille disclose the use of "inner" and "outer" LSPs, the Examiner has not pointed to any teaching therein to utilize inner and outer MPLS labels in the manner recited in claim 2, nor for the purpose of the claimed invention. First, neither Kuehnel nor Langille appear to be directed to transporting TDM time slots of a circuit switched connection from a first circuit switched node to a second circuit switched node through a packet switched network. More importantly, the Examiner has not pointed to any teaching in either of those references to encapsulate the time slots in a data frame, then stack the data frame with (i) at least one inner MPLS label uniquely addressing a PCM system within the second circuit switched node and (ii) at least one outer MPLS label identifying a fixed path of consecutive packet switched nodes within the packet switched network

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fan Ng whose telephone number is (571) 270-3690. The examiner can normally be reached on Monday-Friday; 7:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H. Pham can be reached on (571) 272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/F. N./ Examiner, Art Unit 2471 /Chi H Pham/ Supervisory Patent Examiner, Art Unit 2471